Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-11 (canceled)

Claim 12 (currently amended): A digital camera comprising:

(a) an imaging photography unit comprising a focusing lens, a focusing lens driving unit, and an image sensing unit with a light-receiving surface divided into a chromatic sensing element and an achromatic sensing element, the image sensing unit outputting a digital image signal;

(b) a digital signal processor that processes the digital image signal;

(c) a data storage unit;

(d) an automatic focusing shutter that outputs an automatic focusing indication signal;

(e) a brightness comparator in communication with an output of the image sensing unit to receive the digital image signal, the brightness comparator, in response to the automatic focusing indication signal, recognizing a sensed brightness of the digital image signal, comparing [[a]] the sensed brightness of the digital image signal with a predetermined reference brightness and outputting a brightness comparison result;

(f) a selector in communication with the brightness comparator and the output of the image sensing unit, the selector outputting, in response to the brightness comparison result, a chromatic image signal relative to the chromatic sensing element if the brightness of the digital image signal is greater than the predetermined reference brightness or an achromatic image signal relative to the achromatic sensing element if the brightness of the digital image signal is equal to or smaller than the predetermined reference brightness; and

(g) a focus signal generator in communication with an output of the selector, the focus signal generator analyzing high frequency components of the chromatic or achromatic image signal from the selector, calculating a focal value according to said high frequency components of the chromatic or achromatic image signal, and outputting the focus signal to the focusing lens driving unit to move the focusing lens to a focal location.

Claim 13 (original): The digital camera of claim 12, further comprising a recording medium interface for inserting a recording medium.

Claim 14 (original): The digital camera of claim 13, wherein the recording medium comprises a portable compact flash card, smart media, and memory stick.

Claim 15 (original): The digital camera of claim 12, further comprising a display unit.

Claim 16 (original): The digital camera of claim 15, wherein the display unit is a color LCD monitor.

Claim 17 (original): The digital camera of claim 12, wherein the data storage unit comprises a temporary storage unit and a non-volatile storage unit.

Claim 18 (original): The digital camera of claim 12, wherein the image sensing unit comprises:

(a) a light-receiving surface having a plurality of pixel sensors arranged regularly on a two-dimensional region of a predetermined size;

(b) a scanning electronic circuit that outputs an electric image signal of incident light contacting a plurality of pixel sensors that has undergone photoelectric conversion; and

(c) a color filter mosaic separated at a predetermined distance from the light-receiving surface in the direction of the incident light.

Claim 19 (previously presented): The digital camera of claim 18 wherein the light-receiving surface comprises a chromatic sensing unit for receiving chromatic light entering through the color filter mosaic and an achromatic sensing unit for receiving direct incident achromatic light that has not passed through the color filter mosaic.

Claims 20-21 (canceled)

Claim 22 (previously presented): The digital camera of claim 12 wherein the focusing lens driving unit moves the focusing lens within a predetermined range in response to the automatic focusing indication signal and fixes the location of the focusing lens in response to the focus signal.

Claim 23 (original): The digital camera of claim 12, wherein in the chromatic sensing element and achromatic sensing element are controlled by separate control signals and output only photoelectrically converted chromatic and achromatic image signals through separate paths, respectively.

Claim 24 (original): The digital camera of claim 12, wherein the light-receiving surface may be realized by a metal oxide semiconductor image sensor or a charged coupled device.

Claim 25 (canceled)